Panasonic

Operating Instructions

3D Eyewear

Model No. **TY-EW3D3LU**
TY-EW3D3MU
TY-EW3D3SU

ENGLISH

FRANÇAIS

ESPAÑOL

TQZJ386

Thank you for purchasing a Panasonic product.

- Before operating this product, please read the instructions carefully, and save this manual for future use.
- Before using this product, be sure to read “Safety Precautions” and “Using Precautions” (☞ pages 2 - 6).

This 3D Eyewear can be used for Panasonic HDTVs supporting 3D.
For the latest information on applicable models, visit our web site.
http://panasonic.net/

This product cannot be used as sunglasses.

Safety Precautions

Danger

About Prohibition of Heating

■ Do not put 3D Eyewear in fire, heat it or leave it in places that can get hot.
3D Eyewear contains a lithium-ion polymer rechargeable battery, so heating may result in combustion or rupture that may cause burns or fire.

Warning

About Prevention of Accidental Ingestion

■ Do not store any 3D Eyewear parts in places where small children can reach.
There is a danger small children could swallow such parts by mistake.
- If a child accidentally swallows such parts, seek immediate medical attention.

About Prohibition of Disassembly

■ Do not disassemble or modify the 3D Eyewear.
When disposing this product, refer “Disposal” (☞ pages 9) and disassemble properly for removing the rechargeable battery.

About Charging

- Charge by connecting the included charging cable to the USB terminal of a Panasonic TV supporting 3D.
  Charging with other devices may result in battery leakage, heating or rupture.
- Do not use the included charging cable for uses other than charging 3D Eyewear.
  Doing so may result in heating, combustion or damage.

Caution

About 3D Eyewear

- Do not drop, exert pressure on, or step on the 3D Eyewear.
  Doing so may damage the glass section, which may result in injury.
- Be careful of the tips of the frame when putting on the 3D Eyewear.
  Accidentally inserting the tip of the frame into the eye may cause injury.
- Always keep the 3D Eyewear in a cool, dry place.
  Failure to do so may cause fire or electric shock.
- Be careful not to trap a finger in the hinge section of the 3D Eyewear.
  Doing so may result in injury.
  - Pay special attention when children are using this product.

About Use of 3D Eyewear

- Parents/guardians should monitor children's viewing habits to avoid their prolonged use without rest periods.
- Only use the 3D Eyewear for the specified purpose.
- Do not move around while wearing the 3D Eyewear.
  The surrounding area appears dark, which may result in falling or other accidents that may cause injury.

About Viewing of 3D Images

- In the event that you experience dizziness, nauses, or other discomfort while viewing 3D images discontinue use and rest your eyes.
- Do not use if the 3D Eyewear is cracked or broken.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the Panasonic Service Center or an experienced radio/TV technician for help.

FCC Caution:

To assure continued compliance, follow the attached installation instructions and use only shielded USB interface cable when connecting to computer or TV. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.

FCC Declaration of Conformity

Models:	TY-EW3D3LU/TY-EW3D3MU/ TY-EW3D3SU
Responsible Party:	Panasonic Corporation of North America One Panasonic Way, Secaucus, NJ 07094
Contact Source:	Panasonic Consumer Electronics Company 1-877-95-VIERA (958-4372)
email:	consumerproducts@panasonic.com

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CANADIAN NOTICE:

For Model TY-EW3D3LU/TY-EW3D3MU/TY-EW3D3SU

This Class B digital apparatus complies with Canadian ICES-003.

Using Precautions

Lens

- Do not apply pressure to the liquid crystal shutter. Also, do not drop or bend the 3D Eyewear.
- Do not scratch the surface of the liquid crystal shutter with a pointed instrument etc. Doing so may cause damage to the 3D Eyewear, and reduce the quality of the 3D image.

Infra-red receiver section

- Do not soil the infra-red receiver section or attach stickers etc. to it.
  Doing so may prevent the receiver from receiving signals from the television, which may prevent the 3D Eyewear from operating normally.
- If the 3D Eyewear is affected by other infra-red data communication equipment, the 3D images may not be displayed correctly.

Cautions during viewing

- Do not use devices that emit strong electromagnetic waves (such as cellular phones or personal transceivers) near the 3D Eyewear. Doing so may cause the 3D Eyewear to malfunction.
- The 3D Eyewear cannot operate fully at high or low temperatures. Please use within the specified usage temperature range (☞ page 14).
- If the 3D Eyewear is used in a room in which fluorescent lights (50 Hz) are used, the light within the room may appear to be flickering. In this case, either darken or switch off the fluorescent lights when using the 3D Eyewear.
- Wear the 3D Eyewear correctly. 3D images will not be correctly visible if the 3D Eyewear is worn upside down or back-to-front.
- Other kinds of displays (such as computer screens, digital clocks, or calculators etc.) may be difficult to see while wearing the 3D Eyewear. Do not wear the 3D Eyewear when watching anything other than 3D images.

(continued overleaf)

For comfortable viewing

- View the screen at a distance at least 3 times further than the effective height of the screen.
  Using the 3D Eyewear at a distance closer than the recommended distance may cause eyesight fatigue.
  When the top and bottom area of the screen is blackened, such as movies, view the screen at a distance 3 times of the height of the actual image.
  (That makes the viewing distance closer than above recommended distance.)
- Stop using the 3D Eyewear immediately if your skin feels unusual.
  In rare cases, the paint or materials used in the 3D Eyewear may cause an allergic reaction.
- Stop using the 3D Eyewear immediately if you experience any redness, pain, or itching on the nose or temples.
  Prolonged use may cause such symptoms due to excess pressure, which may result in the user feeling unwell.

Viewing 3D images

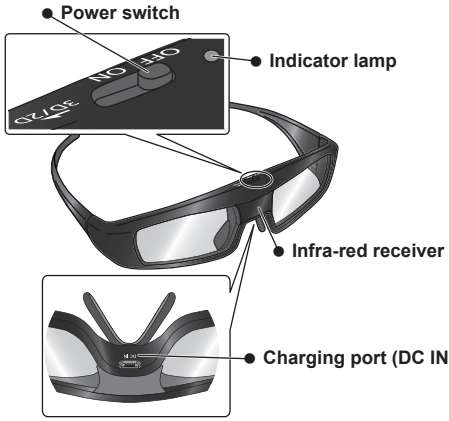
- When watching 3D movies, take an appropriate length break after watching a movie.
- When watching 3D content on interactive devices such as 3D games or computers, take an appropriate length break after using for 30 - 60 minutes.
  Prolonged use may cause eyesight fatigue.

Accessories

Charging cable ····· <1>
(K2KYYYY00164)

- < > indicates the quantity.

Identifying Controls



● Power switch

ON/OFF	Slide the tab to the ON/OFF position to switch the power on/off.
3D/2D	Slide the tab once to the 3D/2D position to change the mode between 3D and 2D. • 2D: View a 3D image in 2D.

● Indicator lamp

Lights or flashes during use or charging to show the status of the rechargeable battery.

● Infra-red receiver

Receives infra-red signals from the television.

- Do not soil the infra-red receiver section or attach stickers etc. to it.

● Charging port

Connect the charging cable.

- Charge by connecting the included charging cable.

■ Indicator lamp status

Indicator lamp	Status
Lights for 2 seconds when turned on	Sufficient battery level
Flashes 5 times when turned on	Low battery level
Flashes once every 2 seconds when in use	3D mode is selected.
Flashes twice every 4 seconds when in use	2D mode is selected.

Charging

■ Charging the 3D Eyewear

Connect the 3D Eyewear with the included charging cable to the television, then switch on the television.

- When the indicator lamp turns off, charging is complete. Approximately 30 minutes required.

NOTE

- Charge the 3D Eyewear before using the first time after purchase or after long periods of disuse.
- Be sure to turn the television power on when charging. The battery will not be charged when the television power is off.

Storage and Cleaning

- Clean using a soft, dry cloth.
- Wiping the 3D Eyewear with a soft cloth that is covered in dust or dirt may scratch the eyewear. Shake off any dust from the cloth before use.
- Do not use benzene, thinner, or wax on the 3D Eyewear, as doing so may cause the paint to peel off.
- Do not dunk the 3D Eyewear in liquid such as water when cleaning.
- Avoid storing the 3D Eyewear in hot or highly humid locations.
- During the long period of disuse, full charge the 3D Eyewear once every 6 months to keep the battery performance.
- As the liquid crystal shutters (lens) are fragile and easily broken, be very careful when cleaning them.

Disposal

A lithium-ion polymer rechargeable battery is built in to the 3D Eyewear. Please discard according to local regulations.
When disposing this product, disassemble properly by following the procedure on the next page, and remove the internal rechargeable battery.

Do not disassemble this product except when disposing of it.

Danger

As the rechargeable battery is specifically for this product, do not use it for any other device.
Do not charge the removed battery.

- Do not throw the battery in a fire, or apply heat to it.
- Do not pierce the battery with a nail, subject it to an impact, or dismantle or modify it.
- Do not let the wires touch any other metal or each other.
- Do not carry or store the battery with a necklace, hair pin, or the like.
- Do not charge, use, or leave the battery in a hot location such as near a fire or under the hot sun.

Doing so may cause the battery to generate heat, ignite, or rupture.

(continued overleaf)

Warning

Do not place the removed battery, screws, and other items within reach of infants.

Accidental swallowing of such an item may have an adverse effect on the body.

- In the event that you think such an item has been swallowed, consult a doctor immediately.

In the event of fluid leaking from the battery, take the following measure, and do not touch the fluid with bare hands.

Fluid entering into an eye may cause loss of eyesight.

- Wash the eye with water immediately without rubbing it, and then consult a doctor.

Fluid getting on your body or clothes may cause inflammation of the skin or injury.

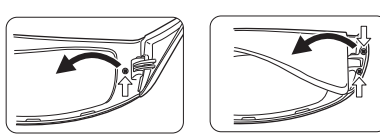
- Sufficiently rinse with clean water, and then consult a doctor.

■ How to remove the battery

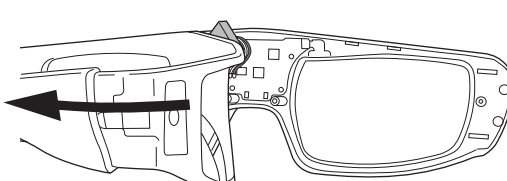
Disassemble this product after the battery has run out of power.

The following figures are intended to explain how to dispose of the product, not for describing how to repair. The product cannot be repaired once it has been disassembled.

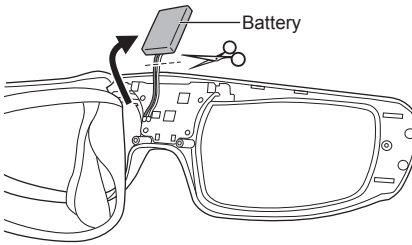
1. Remove the screws of the 3D Eyewear with a precision Phillips (plus ⊕) screwdriver.



2. Bend the frame inwards and pull it off from the side cover.
   - If it is difficult to pull off, insert a flat-blade (minus ⊖) screwdriver and pry open it.



3. Pull off the battery and separate it from the 3D Eyewear by cutting off the wires, one by one, with scissors.
   - Insulate the wire parts of the removed battery with cellophane tape.



NOTE

- Take sufficient care when performing this work so as not to injure yourself.
- Do not damage or dismantle the battery.

Troubleshooting/Q&A

Check the followings first. If they do not solve the problem, please contact the place of purchase.

Images are not 3D.

► **Is the 3D Eyewear mode set to 3D?**
Slide the tab once to the 3D/2D position to change the mode between 3D and 2D.

► **Are the image settings switched to 3D images?**
Refer the television operating instructions.

► **Is there a sticker or other such item blocking the infra-red reception section on the 3D Eyewear?**
If the eyewear stops receiving infra-red signal from the television, the power automatically switches off after 5 minutes.

► **Individual differences may occur in which the 3D images are difficult to see, or cannot be seen, especially in users that have a different level of eyesight between the left and right eyes.**
Take the necessary steps (wearing glasses etc.) to correct your eyesight before use.

The power of the 3D Eyewear turns off by itself.

► **Are there any objects between the eyewear and television?**

► **Is there a sticker or other such item blocking the infra-red reception section on the 3D Eyewear?**
If the eyewear stops receiving infra-red signal from the television, the power automatically switches off after 5 minutes.

The indicator lamp does not light when the power switch is set to “ON”.

► **Is the 3D Eyewear sufficiently charged?**
If the indicator lamp does not light at all, the battery is completely flat. Perform the battery charging operation.

The battery does not charge, or operation time is short when charged.

► **Is the charging cable connected properly?**
Make sure the charging cable is properly connected.

► **Is the television power off?**
Switch the television power on, then charging will start.

► **The battery has reached the end of its lifespan.**
If operation time is very short even when the battery is charged, the battery has reached the end of its lifespan. Please consult with the place of purchase.

Specifications

Usage temperature range

0 °C - 40 °C (32°F - 104°F)

Charging power supply

DC 5 V (supplied by USB terminal of a Panasonic TV)

Battery

Lithium-ion polymer rechargeable battery
DC 3.7 V, 40 mAh
Operation time*1: Approx. 25 hours
Charging time*1: Approx. 30 minutes
Quick charge (2 minutes charge enables approx. 3 hours use)

Viewing range*2

Transmitter for 3D Eyewear
Within 10.5' (3.2 m) from front surface
(Within ± 35° horizontal, ± 20° vertical)

Materials

Main body: Resin
Lens section: Liquid crystal glass

Dimensions (not including nose pad part)

Models	TY-EW3D3LU	TY-EW3D3MU	TY-EW3D3SU
Width	6.72" (170.6 mm)	6.61" (167.7 mm)	6.32" (160.5 mm)
Height	1.67" (42.2 mm)	1.67" (42.2 mm)	1.67" (42.2 mm)
Overall length	6.73" (170.7 mm)	6.73" (170.7 mm)	6.60" (167.6 mm)
Mass	Approx. 0.96 lb (Approx. 27 g)	Approx. 0.92 lb (Approx. 26 g)	Approx. 0.92 lb (Approx. 26 g)

*1 Operation time/Charging time

- The battery deteriorates after repeated use, and the operation time eventually becomes short. The figures above are at shipping from the factory, and are not a guarantee of performance.

*2 Viewing range

- The location of the 3D Eyewear transmitter differs depending on the model of television.
- There are differences in the viewing range of the 3D Eyewear among individuals.
- The 3D Eyewear may not operate correctly at the outside of the viewing range.

Limited Warranty

(for U.S.A. and Puerto Rico only)

ONLY FOR U.S.A. AND PUERTO RICO

Panasonic Accessory Limited Warranty

Panasonic Consumer Electronics Company,
Division of Panasonic Corporation of North America
One Panasonic Way,
Secaucus, New Jersey 07094

Limited Warranty Coverage
(For USA and Puerto Rico Only)

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company (referred to as "the warrantor") will, for the length of the period on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by the warrantor.

Product	Parts	Labor
3D Eyewear	1 (ONE) Year	Not applicable

During the "Parts" warranty period, there will be no charge for parts. This Limited Warranty excludes both parts and labor for non-rechargeable batteries, antennas, and cosmetic parts (cabinet). This warranty only applies to products purchased and serviced in U.S.A. or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is".

Mail-In Service

For assistance in the U.S.A. and Puerto Rico in obtaining replacement, please ship the product prepaid to:

Panasonic Exchange Center
4900 George McVay Drive
Suite B
McAllen, TX 78503
panacare@us.panasonic.com

When shipping the unit, carefully pack, include all accessories, and send it prepaid, adequately insured and preferably in the original carton. If Lithium Ion batteries are shipped by air the package must be labeled "Contains Lithium Ion Battery (No lithium metal)". Damaged batteries are prohibited from shipment by US Mail. Batteries must be securely packed in a manner to prevent short-circuiting and a package cannot contain more than 3 Lithium Ion batteries. Include a letter detailing the complaint, a return address and provide a daytime phone number where you can be reached. A valid registered receipt is required under the Limited Warranty.

(continued overleaf)

IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD, THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE".

THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGE RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.

(As examples, this excludes damages for lost time, travel to and from the servicer, loss of or damage to media or images, data or other memory or recorded content. The items listed are not exclusive, but for illustration only.)

ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Customer Services Directory
(United States and Puerto Rico)

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Service Center; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:
http://www.panasonic.com/help
or, contact us via the web at:
http://www.panasonic.com/contactinfo
You may also contact us directly at:
1-800-211-PANA (7262)
Monday-Friday 9am-9pm, Saturday-Sunday 10am-7pm EST

For hearing or speech impaired TTY users, TTY:
1-877-833-8855

Accessory Purchases
(United States and Puerto Rico)

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at: http://www.pstc.panasonic.com

Or, send your request by E-mail to:
npcparts@us.panasonic.com
You may also contact us directly at:
1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)
(Monday-Friday 9am-9pm EST)
Panasonic Service and Technology Company
20421 84th Avenue South, Kent, WA 98032
(We accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY:
1-866-605-1277

As of February 2010

Limited Warranty
(for Canada)

Panasonic Canada Inc.
5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT – LIMITED WARRANTY

EXCHANGE PROGRAM

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship under normal use and for a period as stated below from the date of original purchase agrees to, at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by Panasonic Canada Inc.

Accessories including rechargeable batteries
One (1) year

This warranty is given only to the original purchaser, or the person for whom it was purchased as a gift, of a Panasonic brand product mentioned above sold by an authorized Panasonic dealer in Canada and purchased and used in Canada, which product was not sold "as is", and which product was delivered to you in new condition in the original packaging.

IN ORDER TO BE ELIGIBLE TO RECEIVE WARRANTY SERVICE HEREUNDER, A PURCHASE RECEIPT OR OTHER PROOF OF DATE OF ORIGINAL PURCHASE, SHOWING AMOUNT PAID AND PLACE OF PURCHASE IS REQUIRED

LIMITATIONS AND EXCLUSIONS

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by Panasonic Canada Inc., or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than an Authorized Servicer, or damage that is attributable to acts of God.

Dry cell batteries are also excluded from coverage under this warranty.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY. (As examples, this warranty excludes damages for lost time, travel to and from the Authorized Servicer, loss of or damage to media or images, data or other memory or recorded content. This list of items is not exhaustive, but for illustration only.)

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable. This warranty gives you specific legal rights and you may have other rights which vary depending on your province or territory.

CONTACT INFORMATION

For product information and operation assistance, please contact:
Our Customer Care Centre:
Telephone #: 1-800-561-5505
Fax #: (905) 238-2360
Email link:
"Support → contact us → email" on www.panasonic.ca

For defective product exchange within the warranty period, please contact the original dealer or our Customer Care Centre.

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Panasonic Corporation

Web Site : http://panasonic.net/
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